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Building & Highway Material Testing Laboratory
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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/CEMENT/2018-19 Date: 20.02.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of Work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement
Sample Received on	:	18.02.2019
Period of Testing	:	18.02.2019 to 20.02.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/SAND-Gradation/2018-19 20.02.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of Work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	18.02.2019
Date of Testing	:	20.02.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	63.50	30-70	55-90	75-100	90-100
600 Micron	43.10	15-34	35-59	60-79	80-100
300 Micron	21.30	5-20	8-30	12-40	15-50
150 Micron	5.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/AGG/GR/2018-19 20.02.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of Work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	18.02.2019
Date of Testing	:	20.02.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.70	95-100	85-100
20	43.74	30-70	0-20
10	21.18	10-35	0-5
4.75	2.68	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/RR/W.No.10/Steel/2018-19

22.02.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	22.02.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	515	556	13.1	O.K	O.K

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Job No.: CTCE/BBMP/RR/W.No.10/Steel/2018-19 22.02.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	22.02.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.25	O.K	O.K

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Job No: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2018-19 26.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.02.2019	26.03.2019	8.192	495.6	22.03
2	26.02.2019	26.03.2019	8.219	514.4	22.86
3	26.02.2019	26.03.2019	8.320	478.5	21.27

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.02.2019	26.03.2019	8.279	487.5	21.67
2	26.02.2019	26.03.2019	8.392	493.2	21.92
3	26.02.2019	26.03.2019	8.354	511.9	22.75

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2018-19

26.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.02.2019	26.03.2019	8.199	480.3	21.35
2	26.02.2019	26.03.2019	8.229	493.5	21.93
3	26.02.2019	26.03.2019	8.302	511.9	22.75

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26.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.02.2019	26.03.2019	8.179	489.6	21.76
2	26.02.2019	26.03.2019	8.211	511.4	22.73
3	26.02.2019	26.03.2019	8.360	514.8	22.88

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2019	28.03.2019	8.378	487.5	21.67
2	28.02.2019	28.03.2019	8.415	515.8	22.92
3	28.02.2019	28.03.2019	8.228	502.6	22.34

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2018-19 28.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2019	28.03.2019	8.135	498.3	22.15
2	28.02.2019	28.03.2019	8.218	511.4	22.73
3	28.02.2019	28.03.2019	8.392	528.9	23.51

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2018-19

28.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2019	28.03.2019	8.379	478.5	21.27
2	28.02.2019	28.03.2019	8.499	493.2	21.92
3	28.02.2019	28.03.2019	8.225	513.2	22.81

*Information is furnished by the Customer/Representative.

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28.03.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.03.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2019	28.03.2019	8.358	475.5	21.13
2	28.02.2019	28.03.2019	8.459	485.6	21.58
3	28.02.2019	28.03.2019	8.229	495.7	22.03

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2019-20 02.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2019	02.04.2019	8.175	495.8	22.04
2	05.03.2019	02.04.2019	8.215	515.4	22.91
3	05.03.2019	02.04.2019	8.323	530.7	23.59

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02.04.2019

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2019	02.04.2019	8.227	474.5	21.09
2	05.03.2019	02.04.2019	8.395	485.6	21.58
3	05.03.2019	02.04.2019	8.456	504.6	22.43

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	02.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2019	02.04.2019	8.115	499.6	22.20
2	05.03.2019	02.04.2019	8.230	514.6	22.87
3	05.03.2019	02.04.2019	8.360	524.8	23.32

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28th day
Sample Received on	:	02.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2019	02.04.2019	8.110	475.5	21.13
2	05.03.2019	02.04.2019	8.280	485.6	21.58
3	05.03.2019	02.04.2019	8.229	495.7	22.03

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2019	05.04.2019	8.162	475.5	21.13
2	08.03.2019	05.04.2019	8.203	485.6	21.58
3	08.03.2019	05.04.2019	8.320	512.4	22.77

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2019	05.04.2019	8.299	480.5	21.36
2	08.03.2019	05.04.2019	8.318	495.6	22.03
3	08.03.2019	05.04.2019	8.456	512.4	22.77

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2019	05.04.2019	8.338	502.4	22.33
2	08.03.2019	05.04.2019	8.459	513.2	22.81
3	08.03.2019	05.04.2019	8.298	522.9	23.24

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.03.2019	05.04.2019	8.298	498.6	22.16
2	08.03.2019	05.04.2019	8.326	511.8	22.75
3	08.03.2019	05.04.2019	8.456	504.6	22.43

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11.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.159	378.9	16.84
2	14.03.2019	11.04.2019	8.203	384.5	17.09
3	14.03.2019	11.04.2019	8.320	395.6	17.58

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* Agency	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
* Name of the work	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.179	380.5	16.91
2	14.03.2019	11.04.2019	8.235	394.5	17.53
3	14.03.2019	11.04.2019	8.317	406.9	18.08

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/RR/W.No.10/CSR-02/887f/Cube/2019-20 11.04.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Ranganath,** No.181C, Indira Nilaya, N.T.I, 1st Stage, AMCO Layout Main Road, Rajiv Gandhi Nagara, Kodigehalli, Bangalore - 560 076.
*** Name of the work**	:	Construction of RCC drains in Pillegowda Layout main road to Vidyaranyapura main road in Ward No.10, Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2019	11.04.2019	8.100	365.4	16.24
2	14.03.2019	11.04.2019	8.297	375.4	16.68
3	14.03.2019	11.04.2019	8.335	385.9	17.15

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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